



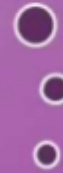
FREQUENCY DISTRIBUTION



120 lbs

WEIGHT	
100 – 110	
110 – 120	120
120 – 130	130
130 – 140	
140 – 150	

BY CONVENTION, WE SAY THAT EACH INTERVAL DOES NOT INCLUDE THE RIGHT END POINT





TIMEPLOT

SHOW HOW A VARIABLE CHANGES OVER TIME

"Data Science & AI"
Siva Rana Krishna



TIMEPLOT

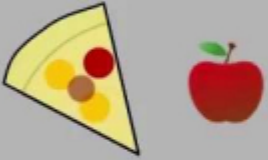
SHOW HOW A VARIABLE CHANGES OVER TIME





VARIABILITY

FOOD PREFERENCES



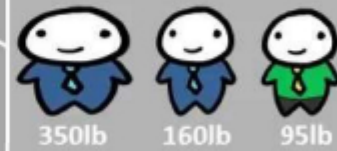
HAIR COLOUR



HEIGHT



WEIGHT





MEASURE VARIABLE

QUANTITATIVE DATA

DATA THAT IS MEASURED IN NUMBERS. IT DEALS WITH NUMBERS THAT MAKE SENSE TO PERFORM ARITHMETIC CALCULATIONS WITH

CATEGORICAL DATA

REFERS TO THE VALUES THAT PLACE "THINGS" INTO DIFFERENT GROUPS OR CATEGORIES

QUANTITATIVE VARIABLES

HEIGHT
WEIGHT
MIDTERM SCORE

CATEGORICAL VARIABLES

HAIR COLOUR
TYPE OF CAT
LETTER GRADE



CATEGORICAL VARIABLE

CATEGORICAL AND ORDINAL

LOGICAL ORDERING TO THE VALUES OF A CATEGORICAL VARIABLE

EX: LETTER GRADE

F C C+ B B+ A A+

CATEGORICAL AND NOMINAL

NO LOGICAL ORDERING TO THE VALUES OF A CATEGORICAL VARIABLE

EX: HAIR COLOUR

RED BLONDE BROWN BLUE



QUANTITATIVE VARIABLE

DISCRETE

REFER TO VARIABLES THAT CAN ONLY BE MEASURED IN CERTAIN NUMBERS

EX: NUMBER OF PETS YOU OWN

0 1 2 30 2.7

CONTINUOUS

REFER TO VARIABLES THAT CAN TAKE ON ANY NUMERICAL VALUE

EX: WEIGHT

105 185 170.683

